CLAIMS

What is claimed is:

- 1 1. A method for detecting the presence of contamination in a nucleic acid
- 2 amplification reaction conducted on a sample, comprising the steps of:
- conducting a first nucleic acid amplification reaction in said sample,
- 4 wherein at least one first nucleic acid primer used in said first nucleic acid
- 5 amplification reaction comprises a first portion that is complementary to a nucleic
- 6 acid sequence in said sample, the amplification of which is desired, and a second
- 7 portion that is not complementary to said nucleic acid sequence;
- 8 conducting a second nucleic acid amplification reaction in said sample
- 9 wherein at least one second primer used in said second nucleic acid amplification
- reaction is complementary to said second portion; and
- detecting contamination in said sample as the presence of amplicon in said
- second nucleic acid amplification reaction.
- 1 2. The method of claim 1, wherein said second portion is not complementary
- 2 to any contiguous nucleic acid present in said sample prior to said first nucleic
- 3 acid amplification reaction.
- 1 3. The method of claim 1, wherein said first nucleic acid amplification
- 2 reaction is selected from the group consisting of PCR, Q-PCR, and reverse-
- 3 transcriptase PCR.
- 1 4. The method of claim 3, wherein said second nucleic acid amplification
- 2 reaction is selected from the group consisting of PCR, Q-PCR, and reverse-
- 3 transcriptase PCR.

- 1 5. The method of claim 1, wherein said amplicon is detected by sequence-
- 2 specific nucleic acid probe capture.
- 1 6. The method of claim 1, wherein said first and second nucleic acid
- 2 amplification reactions are conducted simultaneously.
- 7. The method of claim 1, wherein said first and second nucleic acid
- 2 amplification reactions are conducted on DNA isolated from said sample.
- 1 8. A method for detecting contamination in a nucleic acid amplification
- 2 reaction conducted on a sample, comprising the steps of:
- 3 conducting a first nucleic acid amplification reaction in said sample using
- 4 at least one chimeric primer comprising a template-specific sequence and a 5'
- 5 contamination detection sequence;
- 6 conducting a second nucleic acid amplification reaction in said sample
- y using at least one primer that is substantially comlementary to said contamination
- 8 detection sequence; and
- detecting an amplicon produced in said second nucleic acid amplification
- 10 reaction, the presence of which being indicative of contamination in said sample.
- 1 9. The method of claim 8, wherein said first nucleic acid amplification
- 2 reaction comprises two chimeric primers.
- 1 10. The method of claim 8, wherein said second nucleic acid amplification
- 2 reaction comprises two primers that are complementary to said contamination
- 3 detection sequence.
- 1 11. The method of claim 8, wherein said sample is a biological sample.

- 1 12. The method of claim 11, wherein said sample is a stool sample.
- 1 13. The method of claim 8, wherein said amplification reaction is a
- 2 polymerase chain reaction.
- 1 14. The method of claim 13, wherein said polymerase chain reaction is Q-
- 2 PCR.
- 1 15. The method of claim 13, wherein said polymerase chain reaction is
- 2 reverse-transcriptase PCR.